ANNEX 1 Key Category Analysis

The United States has identified national key categories based on the estimates presented in this report. The IPCC's *Good Practice Guidance* (IPCC 2000) describes a key category as a "[category] that is prioritized within the national inventory system because its estimate has a significant influence on a country's total inventory of direct greenhouse gases in terms of the absolute level of emissions, the trend in emissions, or both." By definition, key categories are sources or sinks that have the greatest contribution to the absolute overall level of national emissions in any of the years covered by the time series. In addition, when an entire time series of emission estimates is prepared, a determination of key categories must also account for the influence of the trends of individual categories. Therefore, a trend assessment is conducted to identify source and sink categories for which significant uncertainty in the estimate would have considerable effects on overall emission trends. Finally, a qualitative evaluation of key categories should be performed, in order to capture any key categories that were not identified in either of the quantitative analyses, but can be considered key because of the unique country-specific estimation methods.

The methodology for conducting a key category analysis, as defined by IPCC's *Good Practice Guidance* (IPCC 2000) and IPCC's *Good Practice Guidance for Land Use, Land-Use Change and Forestry (IPCC 2003)*, includes:

- Tier 1 approach (including both level and trend assessments);
- Tier 2 approach (including both level and trend assessments, and incorporating uncertainty analysis); and
- Qualitative approach.

This Annex presents an analysis of key categories, both for sources only and also for sources and sinks (i.e., including LULUCF); discusses Tier 1, Tier 2, and qualitative approaches to identifying key categories; provides level and trend assessment equations; and provides a brief statistical evaluation of IPCC's quantitative methodologies for defining key categories.

Table A- 1 presents the key categories for the United States based on the Tier 1 approach (including and not including LULUCF categories) using emissions data in this report, and ranked according to their sector and global warming potential-weighted emissions in 2004. The table also indicates the criteria used in identifying these source and sink categories (i.e., level, trend, and/or qualitative assessments).

Table A-1: Key Source Categories for the United States (1990-2004) Based on Tier 1 Approach

		Level Without	Trend Without	Level With	Trend With		2004 Emissions
IPCC Source Categories	Gas	LULUCF	LULUCF	LULUCF	LULUCF	Quala	(Tg CO ₂ Eq.)
Energy							
CO ₂ Emissions from Stationary Combustion—Coal	CO_2	\checkmark	\checkmark	\checkmark	✓		2,027.0
Mobile Combustion: Road & Other	CO_2	✓	✓	✓	✓		1,621.5
CO ₂ Emissions from Stationary Combustion—Gas	CO_2	✓	✓	✓	✓		1,153.8
CO ₂ Emissions from Stationary Combustion—Oil	CO_2	✓	✓	✓	✓		619.9
Mobile Combustion: Aviation	CO_2	✓	✓	✓	✓		179.6
Fugitive Emissions from Natural Gas Operations	CH ₄	✓	✓	✓	✓		153.4
CO ₂ Emissions from Non-Energy Use of Fuels	CO_2	✓	✓	✓	✓		118.8
International Bunker Fuels ^b	Several					✓	95.5
Fugitive Emissions from Coal Mining and Handling	CH ₄	✓	✓	✓	✓		56.3
Mobile Combustion: Marine	CO_2	✓		✓			54.4
Mobile Combustion: Road & Other	N_2O	✓	✓	✓			40.6
Fugitive Emissions from Oil Operations	CH ₄	✓	✓	✓	✓		25.7
Industrial Processes		_					

Emissions from Substitutes for Ozone Depleting Substances	Several	✓	✓	✓	✓	103.3
CO ₂ Emissions from Iron and Steel Production	CO_2	✓	✓	✓	✓	51.3
CO ₂ Emissions from Cement Production	CO_2	✓	✓	✓	✓	45.6
CO ₂ Emissions from Ammonia Production and Urea Application	CO_2		✓			16.9
SF ₆ Emissions from Electrical Equipment	SF ₆		✓		✓	15.6
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	✓	✓	✓	✓	13.8
N₂O Emissions from Adipic Acid Production	N_2O		✓		✓	5.7
PFC Emissions from Aluminum Production	PFCs		✓		✓	2.8
Agriculture						
Direct N₂O Emissions from Agricultural Soils	N_2O	✓		✓		170.9
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	✓	✓	✓	✓	112.6
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N_2O	✓	✓	✓	✓	90.6
CH ₄ Emissions from Manure Management	CH ₄			✓		39.4
Waste						
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	✓	✓	✓	✓	140.9
CH ₄ Emissions from Wastewater Handling	CH ₄		✓		✓	36.9
CO ₂ Emissions from Waste Incineration	CO_2		✓		✓	19.4
Land Use, Land-Use Change, and Forestry						
CO ₂ Emissions from Forest Land Remaining Forest Land	CO_2			✓	✓	(637.2)
CO ₂ Emissions from Settlements Remaining Settlements	CO_2			✓		(97.3)
CO ₂ Emissions from Cropland Remaining Cropland	CO_2			✓	✓	(28.9)
Subtotal Without LULUCF						6,918.2
Total Emissions Without LULUCF						7,067.6
Percent of Total Without LULUCF						97.9%
Subtotal With LULUCF						6,154.8
Total Emissions With LULUCF						6,294.3
Percent of Total With LULUCF						97.8%

^aQualitative criteria.

Note: The Tier 1 approach for identifying key source categories does not directly include assessment of uncertainty in emissions estimates.

Table A- 2 provides a complete listing of source categories by IPCC sector, along with comments on the criteria used in identifying key categories, without LULUCF sources and sinks. Similarly, Table A- 3 provides a complete listing of source and sink categories by IPCC sector, along with comments on the criteria used in identifying key categories, including LULUCF sources and sinks. The comments refer specifically to the year(s) over the course of the entire inventory time series (i.e., 1990 to 2004) in which each source category reached the threshold for being a key source based on a Tier 1 level assessment.

In addition to conducting Tier 1 level and trend assessments, a qualitative assessment of the source and sink categories, as described in the IPCC's *Good Practice Guidance* (IPCC 2000), was conducted to capture any key categories that were not identified by either quantitative method. One additional key category, international bunker fuels, was identified using this qualitative assessment. International bunker fuels are fuels consumed for aviation or marine international transport activities, and emissions from these fuels are reported separately from totals in accordance with IPCC guidelines. If these emissions were included in the totals, bunker fuels would qualify as a key category according to the Tier 1 approach. The amount of uncertainty associated with estimation of emissions from international bunker fuels also supports the qualification of this source category as key.

Following the text of this Annex, Table A- 3 through Table A- 7 contain the 1990 and 2004 level assessments for both with and withouth LULCF sources and sinks, and contain further detail on where each source

bEmissions from this source not included in totals.

falls within the analysis. Table A- 8 and Table A- 9 detail the "with LULUCF" and "without LULUCF" trend assessments for 1990 through 2004.

Table A-2: U.S Greenhouse Gas Inventory Source Categories without LULUCF

IDDOC O. I	Direct	2004 Emissions	Key Category	ID	
IPCC Source Categories	GHG	(Tg CO ₂ Eq.)	Flag?	Criteria	Comments
Energy	00	0.007.0	,		1 1 1000 10004
CO ₂ Emissions from Stationary Combustion—Coal	CO ₂	2,027.0	√	L,T	Level in 1990 and 2004
Mobile Combustion: Road & Other	CO_2	1,621.5	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Stationary Combustion—Gas	CO_2	1,153.8	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Stationary Combustion—Oil	CO_2	619.9	✓	L,T	Level in 1990 and 2004
Mobile Combustion: Aviation	CO_2	179.6	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Non-Energy Use of Fuels	CO_2	153.4	✓	L,T	Level in 1990 and 2004
Mobile Combustion: Marine	CO ₂	54.4	✓	L	Level in 1990 and 2004
CO ₂ Emissions from Natural Gas Flaring CO ₂ Emissions from Stationary Combustion—Geothermal	CO ₂	6.0		_	2001 11 1770 4114 2001
Energy	CO_2	0.4			
Fugitive Emissions from Natural Gas Operations	CH ₄	118.8	✓	L,T	Level in 1990 and 2004
Fugitive Emissions from Coal Mining and Handling	CH ₄	56.3	✓	L,T	Level in 1990 and 2004
Fugitive Emissions from Oil Operations	CH ₄	25.7	✓	L,T	Level in 1990
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	6.4			
Fugitive Emissions from Abandoned Coal Mines	CH ₄	5.6			
Mobile Combustion: Road & Other	CH ₄	2.7			
Mobile Combustion: Aviation	CH ₄	0.1			
Mobile Combustion: Marine	CH ₄	0.1			
Mobile Combustion: Road & Other	N_2O	40.6	✓	L,T	Level in 1990 and 2004
Non-CO ₂ Emissions from Stationary Combustion	N_2O	13.7			
Mobile Combustion: Aviation	N_2O	1.8			
Mobile Combustion: Marine	N_2O	0.4			
International Bunker Fuels ^a	Several	95.5	✓	Q	
Industrial Processes					
CO ₂ Emissions from Iron and Steel Production	CO_2	51.3	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Cement Production	CO_2	45.6	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Ammonia Production and Urea Application	CO_2	16.9	✓	Т	
CO ₂ Emissions from Lime Production	CO_2	13.7			
CO ₂ Emissions from Limestone and Dolomite Use	CO_2	6.7			
CO ₂ Emissions from Aluminum Production	CO_2	4.3			
CO ₂ Emissions from Soda Ash Manufacture and Consumption	CO_2	4.2			
CO ₂ Emissions from Petrochemical Production	CO_2	2.9			
CO ₂ Emissions from Titanium Dioxide Production	CO_2	2.3			
CO ₂ Emissions from Phosphoric Acid Production	CO ₂	1.4			
CO ₂ Emissions from Ferroalloys	CO ₂	1.3			
CO ₂ Emissions from CO ₂ Consumption	CO ₂	1.2			
CO ₂ Emissions from Zinc Production	CO ₂	0.5			
CO ₂ Emissions from Lead Production	CO ₂	0.3			
CO ₂ Emissions from Silicon Carbide Consumption CH ₄ Emissions from Petrochemical Production	CO ₂ CH ₄	0.1			
CH4 Emissions from Iron and Steel Production	CH ₄	1.6 1.0			
CH4 Emissions from Silicon Carbide Production	CH ₄	+			
N ₂ O Emissions from Nitric Acid Production	N ₂ O	16.6			
N ₂ O Emissions from Adipic Acid Production	N ₂ O	5.7	✓	Т	
N ₂ O Emissions from N ₂ O Product Usage	N ₂ O	4.8	•	ı	
1420 Emissions hom 1420 i roddet Usage	11/20	4.0			

Emissions from Substitutes for Ozone Depleting Substances	HiGWP	103.3	✓	L,T	Level in 2004
HFC-23 Emissions from HCFC-22 Manufacture	HiGWP	15.6	✓	L,T	Level in 1990
SF ₆ Emissions from Electrical Equipment PFC, HFC, and SF ₆ Emissions from Semiconductor	HiGWP	13.8	✓	T	
Manufacture	HiGWP	4.7			
PFC Emissions from Aluminum Production	HiGWP	2.8	✓	T	
SF ₆ Emissions from Magnesium Production	HiGWP	2.7			
Agriculture					
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	112.6	✓	L,T	Level in 1990 and 2004
CH ₄ Emissions from Manure Management	CH ₄	39.4			
CH ₄ Emissions from Rice Production	CH_4	7.6			
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.9			
Direct N ₂ O Emissions from Agricultural Soils	N_2O	170.9	✓	L	Level in 1990 and 2004
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N_2O	90.6	✓	L,T	Level in 1990 and 2004
N ₂ O Emissions from Manure Management	N_2O	17.7			
N ₂ O Emissions from Agricultural Residue Burning	N_2O	0.5			
Waste					_
CO ₂ Emissions from Waste Incineration	CO_2	19.4	✓	T	
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	140.9	✓	L,T	Level in 1990 and 2004
CH ₄ Emissions from Wastewater Handling	CH ₄	36.9	✓	T	
N ₂ O Emissions from Wastewater Handling	N_2O	16.0			
N ₂ O Emissions from Waste Incineration	N_2O	0.5			

^a Emissions from these sources not included in totals.

Does not exceed 0.05 Tg CO₂ Eq.
 Note: LULUCF sourcesand sinks are not included in this analysis.
 Note: The Tier 1 approach for identifying key categories does not directly include assessment of uncertainty in emission estimates.

Table A-3: U.S Greenhouse Gas Inventory Source Categories with LULUCF

-		2004	Key Source		
IDCC Cauras Catamarias	Direct	Emissions	Category	ID Critorio	Comments
IPCC Source Categories	GHG	(Tg CO ₂ Eq.)	Flag?	Criteria	Comments
Energy					
CO ₂ Emissions from Stationary Combustion—Coal	CO_2	2,027.0	✓	L,T	Level in 1990 and 2004
Mobile Combustion: Road & Other	CO_2	1,621.5	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Stationary Combustion—Gas	CO_2	1,153.8	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Stationary Combustion—Oil	CO_2	619.9	✓	L,T	Level in 1990 and 2004
Mobile Combustion: Aviation	CO_2	179.6	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Non-Energy Use of Fuels	CO_2	153.4	✓	L,T	Level in 1990 and 2004
Mobile Combustion: Marine	CO_2	54.4	✓	L	Level in 1990 and 2004
CO ₂ Emissions from Natural Gas Flaring CO ₂ Emissions from Stationary Combustion—Geothermal	CO ₂	6.0			
Energy	CO_2	0.4			
Fugitive Emissions from Natural Gas Operations	CH ₄	118.8	✓	L,T	Level in 1990 and 2004
Fugitive Emissions from Coal Mining and Handling	CH ₄	56.3	✓	L,T	Level in 1990 and 2004
Fugitive Emissions from Oil Operations	CH_4	25.7	✓	L,T	Level in 1990
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	6.4			
Fugitive Emissions from Abandoned Coal Mines	CH ₄	5.6			
Mobile Combustion: Road & Other	CH_4	2.7			
Mobile Combustion: Aviation	CH ₄	0.1			
Mobile Combustion: Marine	CH ₄	0.1			
Mobile Combustion: Road & Others	N_2O	40.6	✓	L	Level in 1990 and 2004

Non-CO ₂ Emissions from Stationary Combustion	N ₂ O	13.7			
Mobile Combustion: Aviation	N ₂ O	1.8			
Mobile Combustion: Marine	N ₂ O	0.4	,		
International Bunker Fuelsa	Several	95.5	✓	Q	
Industrial Processes	00	F4 0	,		1 1 1000 10004
CO ₂ Emissions from Iron and Steel Production	CO ₂	51.3	√	L,T	Level in 1990 and 2004
CO ₂ Emissions from Cement Production	CO_2	45.6	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Ammonia Production and Urea Application	CO ₂	16.9			
CO ₂ Emissions from Lime Production CO ₂ Emissions from Limestone and Dolomite Use	CO ₂	13.7			
CO ₂ Emissions from Aluminum Production	CO_2 CO_2	6.7 4.3			
CO ₂ Emissions from Soda Ash Manufacture and Consumption	CO ₂	4.3 4.2			
CO ₂ Emissions from Petrochemical Production	CO ₂	2.9			
CO ₂ Emissions from Titanium Dioxide Production	CO ₂	2.3			
CO ₂ Emissions from Phosphoric Acid Production	CO ₂	1.4			
CO ₂ Emissions from Ferroalloys	CO_2	1.3			
CO ₂ Emissions from CO ₂ Consumption	CO_2	1.2			
CO ₂ Emissions from Zinc Production	CO_2	0.5			
CO ₂ Emissions from Lead Production	CO_2	0.3			
CO ₂ Emissions from Silicon Carbide Consumption	CO_2	0.1			
CH ₄ Emissions from Petrochemical Production	CH ₄	1.6			
CH ₄ Emissions from Iron and Steel Production	CH_4	1.0			
CH ₄ Emissions from Silicon Carbide Production	CH ₄	+			
N ₂ O Emissions from Nitric Acid Production	N_2O	16.6			
N ₂ O Emissions from Adipic Acid Production	N_2O	5.7	✓	T	
N ₂ O Emissions from N ₂ O Product Usage	N_2O	4.8			
Emissions from Substitutes for Ozone Depleting Substances	HiGWP	103.3	✓	L,T	Level in 2004
HFC-23 Emissions from HCFC-22 Manufacture	HiGWP	15.6	✓	L,T	Level in 1990
SF ₆ Emissions from Electrical Equipment PFC, HFC, and SF ₆ Emissions from Semiconductor	HiGWP	13.8	✓	T	
Manufacture	HiGWP	4.7			
PFC Emissions from Aluminum Production	HiGWP	2.8	✓	T	
SF ₆ Emissions from Magnesium Production	HiGWP	2.7			
Agriculture					
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	112.6	✓	L,T	Level in 1990 and 2004
CH ₄ Emissions from Manure Management	CH ₄	39.4	✓	L	Level in 2004
CH ₄ Emissions from Rice Production	CH_4	7.6			
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.9			
Direct N ₂ O Emissions from Agricultural Soils	N_2O	170.9	✓	L	Level in 1990 and 2004
Indirect N2O Emissions from Nitrogen Used in Agriculture	N_2O	90.6	✓	L,T	Level in 1990 and 2004
N ₂ O Emissions from Manure Management	N_2O	17.7			
N ₂ O Emissions from Agricultural Residue Burning	N_2O	0.5			
Waste					
CO ₂ Emissions from Waste Incineration	CO_2	19.4	✓	T	
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	140.9	✓	L,T	Level in 1990 and 2004
CH ₄ Emissions from Wastewater Handling	CH ₄	36.9	✓	T	
N ₂ O Emissions from Wastewater Handling	N_2O	16.0			
N ₂ O Emissions from Waste Incineration	N_2O	0.5			
Land Use, Land-Use Change, and Forestry			_	_	
CO ₂ Emissions from Forest Land Remaining Forest Land	CO_2	(637.2)	✓	L,T	Level in 1990 and 2004
CO ₂ Emissions from Settlements Remaining Settlements	CO_2	(97.3)	✓	L	Level in 1990 and 2004
		()			

CO ₂ Emissions from Cropland Remaining Cropland	CO_2	(28.9)	✓	L,T	Level in 1990
CO ₂ Emissions from Land Converted to Grassland	CO_2	(21.1)			
CO ₂ Emissions from Grassland Remaining Grassland	CO_2	7.3			
CO ₂ Emissions from Land Converted to Cropland	CO_2	(2.8)			
N ₂ O Emissions from Settlements Remaining Settlements	N_2O	6.4			
N ₂ O Emissions from Forest Land Remaining Forest Land	N_2O	0.4			

^a Emissions from these sources not included in totals.

Note: The Tier 1 approach for identifying key categories does not directly include assessment of uncertainty in emission estimates.

Evaluation of Tier 1 Key Categories

Level Assessment

When using a Tier 1 approach for the level assessment, a predetermined cumulative emissions threshold is used to identify key categories. When source and sink categories are sorted in order of decreasing absolute emissions, those that fall at the top of the list and cumulatively account for 95 percent of emissions are considered key categories. The 95 percent threshold in the IPCC *Good Practice Guidance* (IPCC 2000) was designed to establish a general level where the key category analysis covers approximately 75 to 92 percent of inventory uncertainty.

It is important to note that a key category analysis can be sensitive to the definitions of the source and sink categories. If a large source category is split into many subcategories, then the subcategories may have contributions to the total inventory that are too small for those source categories to be considered key. Similarly, a collection of small, non-key source categories adding up to less than 5 percent of total emissions could become key source categories if those source categories were aggregated into a single source category. The United States has attempted to define source and sink categories by the conventions which would allow comparison with other international key categories, while still maintaining the category definitions that constitute how the emissions estimates were calculated for this report. As such, some of the category names used in the key category analysis may differ from the names used in the main body of the report. Additionally, the United States accounts for some source categories, including fossil fuel feedstocks, international bunkers, and emissions from U.S. territories, that are derived from unique data sources using country-specific methodologies.

Trend Assessment

The United States is currently taking a Tier 1 approach to identify trend assessment key categories until a full and consistent inventory-wide uncertainty analysis is completed. The Tier 1 approach for trend assessment is defined as the product of the source or sink category level assessment and the absolute difference between the source or sink category trend and the total trend. In turn, the source or sink category trend is defined as the change in emissions from the base year to the current year, as a percentage of current year emissions from that source or sink category. The total trend is the percentage change in total inventory emissions from the base year to the current year.

Thus, the source or sink category trend assessment will be large if the source or sink category represents a large percentage of emissions and/or has a trend that is quite different from the overall inventory trend. To determine key categories, the trend assessments are sorted in decreasing order, so that the source or sink categories with the highest trend assessments appear first. The trend assessments are summed until the threshold of 95 percent is reached; all categories that fall within that cumulative 95 percent are considered key categories.

Tier 2 Key Category Assessment

IPCC Good Practice Guidance (IPCC 2000) recommends using a Tier 2 method for identifying key source categories if nationally derived source-level uncertainties are measured. The Tier 2 approach is a more detailed analysis that builds on the Tier 1 approach by multiplying the results of the Tier 1 analysis by the relative uncertainty of each source category. This method is likely to reduce the number of key source categories under consideration. As part of its multi-year uncertainty assessment effort, the United States has already developed quantitative uncertainty estimates for most source and sink categories. When quantitative estimates of uncertainty become available for all source categories, future inventories can incorporate this Tier 2 approach.

Table A- 4: 1990 Key Source Category Tier 1 Analysis—Level Assessment, without LULUCF

⁺ Does not exceed 0.05 Tg CO₂ Eq.

IPCC Source Categories	Direct GHG	1990 Estimate (Tg CO ₂ Eq.)	1990 Estimate (Tg CO ₂ Eq.)		Cumulative Total of Level Assessment
CO ₂ Emissions from Stationary Combustion—Coal	CO ₂	1,683.8	1,683.8	0.28	0.28
Mobile Combustion: Road & Other	CO ₂	1240.6	1240.6		0.48
CO ₂ Emissions from Stationary Combustion—Gas	CO ₂	971.0	971.0	0.16	0.64
CO ₂ Emissions from Stationary Combustion—Oil	CO ₂	580.0	580.0	0.10	0.73
Mobile Combustion: Aviation	CO ₂	177.2	177.2	0.03	0.76
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	172.3	172.3	0.03	0.79
Direct N₂O Emissions from Agricultural Soils	N ₂ O	150.4	150.4	0.02	0.82
Fugitive Emissions from Natural Gas Operations	CH ₄	126.7	126.7	0.02	0.84
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	117.9	117.9	0.02	0.86
CO ₂ Emissions from Non-Energy Use of Fuels	CO ₂	117.2	117.2	0.02	0.87
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N ₂ O	115.7	115.7	0.02	0.89
CO ₂ Emissions from Iron and Steel Production	CO ₂	85.0	85.0	0.01	0.91
Fugitive Emissions from Coal Mining and Handling	CH ₄	81.9	81.9	0.01	0.92
Mobile Combustion: Marine	CO ₂	43.6	43.6	0.01	0.93
Mobile Combustion: Road & Other	N ₂ O	41.4	41.4	0.01	0.93
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	35.0	35.0	0.01	0.94
Fugitive Emissions from Oil Operations	CH ₄	34.4	34.4	0.01	0.95
CO ₂ Emissions from Cement Production	CO_2	33.3	33.3	0.01	0.95
CH ₄ Emissions from Manure Management	CH ₄	31.2	31.2	0.01	0.96
SF ₆ Emissions from Electrical Equipment	SF ₆	28.6	28.6	< 0.01	0.96
CH ₄ Emissions from Wastewater Handling	CH ₄	24.8	24.8	< 0.01	0.97
CO ₂ Emissions from Ammonia Production and Urea Application	CO_2	19.3	19.3	< 0.01	0.97
PFC Emissions from Aluminum Production	PFCs	18.4	18.4		0.97
N ₂ O Emissions from Nitric Acid Production	N_2O	17.8	17.8	< 0.01	0.97
N ₂ O Emissions from Manure Management	N_2O	16.3	16.3	< 0.01	0.98
N ₂ O Emissions from Adipic Acid Production	N_2O	15.2	15.2	< 0.01	0.98
N ₂ O Emissions from Wastewater Handling	N_2O	12.9	12.9	< 0.01	0.98
Non-CO ₂ Emissions from Stationary Combustion	N_2O	12.3	12.3	< 0.01	0.98
CO ₂ Emissions from Lime Production	CO_2	11.2	11.2		0.99
CO ₂ Emissions from Waste Incineration	CO_2	10.9	10.9	< 0.01	0.99
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	7.9	7.9	< 0.01	0.99
CH ₄ Emissions from Rice Production	CH₄	7.1	7.1	< 0.01	0.99
CO ₂ Emissions from Aluminum Production	CO ₂	7.0	7.0	<0.01	0.99
Fugitive Emissions from Abandoned Coal Mines	CH ₄	6.0	6.0	<0.01	0.99
CO ₂ Emissions from Natural Gas Flaring	CO ₂	5.8	5.8	<0.01	0.99
CO ₂ Emissions from Limestone and Dolomite Use	CO ₂	5.5	5.5	<0.01	0.99
SF ₆ Emissions from Magnesium Production	SF ₆	5.4	5.4	<0.01	0.99
Mobile Combustion: Road & Other	CH₄	4.5	4.5	<0.01	1.00
N ₂ O Emissions from N ₂ O Product Usage	N ₂ O	4.3	4.3	<0.01	1.00
CO ₂ Emissions from Soda Ash Manufacture and Consumption	CO ₂	4.1	4.1	<0.01	1.00
PFC, HFC, and SF ₆ Emissions from Semiconductor Manufacture	SF ₆	2.9	2.9	<0.01	1.00
CO ₂ Emissions from Petrochemical Production	CO ₂	2.2	2.2		1.00
CO ₂ Emissions from Ferroalloys	CO_2	2.0	2.0	< 0.01	1.00
Mobile Combustion: Aviation	N ₂ O	1.7	1.7	< 0.01	1.00
CO ₂ Emissions from Phosphoric Acid Production	CO ₂ CH ₄	1.5	1.5 1.3	<0.01	1.00
CH ₄ Emissions from Iron and Steel Production	CH ₄ CO ₂	1.3 1.3	1.3	<0.01 <0.01	1.00 1.00
CO ₂ Emissions from Titanium Dioxide Production	CO ₂ CH ₄	1.3	1.3	<0.01	
CH ₄ Emissions from Petrochemical Production CO ₂ Emissions from Zinc Production	CO ₂	0.9	0.9	<0.01	1.00 1.00
CO ₂ Emissions from CO ₂ Consumption	CO ₂	0.9	0.9	<0.01	1.00
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.7	0.7	<0.01	1.00
N ₂ O Emissions from Waste Incineration	N ₂ O	0.7	0.7	<0.01	1.00
Emissions from Substitutes for Ozone Depleting Substances	Several	0.3	0.3	<0.01	1.00
CO ₂ Emissions from Stationary Combustion—Geothermal Energy	CO ₂	0.4	0.4	<0.01	1.00
N ₂ O Emissions from Agricultural Residue Burning	N ₂ O	0.4	0.4	<0.01	1.00
Mobile Combustion: Marine	N ₂ O	0.4	0.4	<0.01	1.00
CO ₂ Emissions from Lead Production	CO ₂	0.3	0.3	<0.01	1.00
5 52 Emissions nom Lodd i Toddollon	J J J	0.5	0.5	\0.01	1.00

Mobile Combustion: Aviation	CH ₄	0.2	0.2	< 0.01	1.00
CO ₂ Emissions from Silicon Carbide Consumption	CO_2	0.1	0.1	< 0.01	1.00
Mobile Combustion: Marine	CH ₄	0.1	0.1	< 0.01	1.00
CH ₄ Emissions from Silicon Carbide Production	CH ₄	0.0	0.0	< 0.01	1.00
TOTAL		6,103.3	6,103.3	1.00	

Note: LULUCF sources and sinks are not included in this analysis.

Table A- 5: 1990 Key Source Category Tier 1 Analysis—Level Assessment, with LULUCF

		1990 Estimate	1990 Estimate	l evel	Cumulative Total of Level
IPCC Source Categories	Direct GHG	(Tg CO ₂ Eq.)	(Tg CO ₂ Eq.)		Assessment
CO ₂ Emissions from Stationary Combustion—Coal	CO ₂	1,683.8	1,683.8	0.24	0.24
Mobile Combustion: Road & Other	CO ₂	1,240.6	1,240.6	0.18	0.42
CO ₂ Emissions from Stationary Combustion—Gas	CO ₂	971.0	971.0	0.14	0.55
CO ₂ Emissions from Forest Land Remaining Forest Land	CO ₂	773.4	773.4	0.11	0.66
CO ₂ Emissions from Stationary Combustion—Oil	CO_2	580.0	580.0	0.08	0.75
Mobile Combustion: Aviation	CO_2	177.2	177.2	0.03	0.77
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	172.3	172.3	0.02	0.80
Direct N ₂ O Emissions from Agricultural Soils	N_2O	150.4	150.4	0.02	0.82
Fugitive Emissions from Natural Gas Operations	CH ₄	126.7	126.7	0.02	0.84
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	117.9	117.9	0.02	0.85
CO ₂ Emissions from Non-Energy Use of Fuels	CO_2	117.2	117.2	0.02	0.87
Indirect N2O Emissions from Nitrogen Used in Agriculture	N_2O	115.7	115.7	0.02	0.89
CO ₂ Emissions from Iron and Steel Production	CO_2	85.0	85.0	0.01	0.90
CO ₂ Emissions from Settlements Remaining Settlements	CO_2	83.2	83.2	0.01	0.91
Fugitive Emissions from Coal Mining and Handling	CH ₄	81.9	81.9	0.01	0.92
Mobile Combustion: Marine	CO ₂	43.6	43.6	0.01	0.93
Mobile Combustion: Road & Other	N_2O	41.4	41.4	0.01	0.93
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	35.0	35.0	< 0.01	0.94
Fugitive Emissions from Oil Operations	CH ₄	34.4	34.4	< 0.01	0.94
CO ₂ Emissions from Cement Production	CO_2	33.3	33.3	< 0.01	0.95
CO ₂ Emissions from Cropland Remaining Cropland	CO ₂	33.1	33.1	< 0.01	0.95
CH ₄ Emissions from Manure Management	CH ₄	31.2	31.2	< 0.01	0.96
SF ₆ Emissions from Electrical Equipment	SF ₆	28.6	28.6	< 0.01	0.96
CH ₄ Emissions from Wastewater Handling	CH ₄	24.8	24.8	< 0.01	0.97
CO ₂ Emissions from Ammonia Production and Urea Application	CO_2	19.3	19.3	< 0.01	0.97
PFC Emissions from Aluminum Production	PFCs	18.4	18.4	< 0.01	0.97
N ₂ O Emissions from Nitric Acid Production	N_2O	17.8	17.8	< 0.01	0.97
CO ₂ Emissions from Land Converted to Grassland	CO_2	17.6	17.6	< 0.01	0.98
N ₂ O Emissions from Manure Management	N_2O	16.3	16.3	< 0.01	0.98
N ₂ O Emissions from Adipic Acid Production	N_2O	15.2	15.2	< 0.01	0.98
N ₂ O Emissions from Wastewater Handling	N_2O	12.9	12.9	< 0.01	0.98
Non- CO ₂ Emissions from Stationary Combustion	N_2O	12.3	12.3	< 0.01	0.98
CO ₂ Emissions from Lime Production	CO_2	11.2	11.2	< 0.01	0.99
CO ₂ Emissions from Waste Incineration	CO_2	10.9	10.9	< 0.01	0.99
Non- CO ₂ Emissions from Stationary Combustion	CH ₄	7.9	7.9	< 0.01	0.99
CH ₄ Emissions from Rice Production	CH ₄	7.1	7.1	< 0.01	0.99
CO ₂ Emissions from Aluminum Production	CO_2	7.0	7.0	< 0.01	0.99
Fugitive Emissions from Abandoned Coal Mines	CH_4	6.0	6.0	< 0.01	0.99
CO ₂ Emissions from Natural Gas Flaring	CO_2	5.8	5.8	< 0.01	0.99
N ₂ O Emissions from Settlements Remaining Settlements	N_2O	5.6	5.6	< 0.01	0.99
CO ₂ Emissions from Limestone and Dolomite Use	CO_2	5.5	5.5	< 0.01	0.99
SF ₆ Emissions from Magnesium Production	SF ₆	5.4	5.4	< 0.01	0.99
CO ₂ Emissions from Grassland Remaining Grassland	CO_2	4.5	4.5	< 0.01	1.00
Mobile Combustion: Road & Other	CH ₄	4.5	4.5	< 0.01	1.00
N ₂ O Emissions from N ₂ O Product Usage	N ₂ O	4.3	4.3	<0.01	1.00

TOTAL		7,022.3	7,022.3	1.00	
CH ₄ Emissions from Silicon Carbide Production	CH ₄	0.0	0.0	<0.01	1.00
N ₂ O Emissions from Forest Land Remaining Forest Land	N_2O	0.1	0.1	< 0.01	1.00
Mobile Combustion: Marine	CH ₄	0.1	0.1	< 0.01	1.00
CO ₂ Emissions from Silicon Carbide Consumption	CO_2	0.1	0.1	< 0.01	1.00
Mobile Combustion: Aviation	CH ₄	0.2	0.2	< 0.01	1.00
CO ₂ Emissions from Lead Production	CO_2	0.3	0.3	< 0.01	1.00
Mobile Combustion: Marine	N_2O	0.4	0.4	< 0.01	1.00
N ₂ O Emissions from Agricultural Residue Burning	N_2O	0.4	0.4	< 0.01	1.00
CO ₂ Emissions from Stationary Combustion—Geothermal Energy	CO_2	0.4	0.4	< 0.01	1.00
Emissions from Substitutes for Ozone Depleting Substances	Several	0.4	0.4	< 0.01	1.00
N₂O Emissions from Waste Incineration	N_2O	0.5	0.5	< 0.01	1.00
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.7	0.7	< 0.01	1.00
CO ₂ Emissions from CO ₂ Consumption	CO_2	0.9	0.9	< 0.01	1.00
CO ₂ Emissions from Zinc Production	CO_2	0.9	0.9	< 0.01	1.00
CH ₄ Emissions from Petrochemical Production	CH ₄	1.2	1.2	< 0.01	1.00
CO ₂ Emissions from Titanium Dioxide Production	CO_2	1.3	1.3	< 0.01	1.00
CH ₄ Emissions from Iron and Steel Production	CH ₄	1.3	1.3	< 0.01	1.00
CO ₂ Emissions from Land Converted to Cropland	CO ₂	1.5	1.5	<0.01	1.00
CO ₂ Emissions from Phosphoric Acid Production	CO ₂	1.5	1.5	<0.01	1.00
Mobile Combustion: Aviation	N ₂ O	1.7	1.7	<0.01	1.00
CO ₂ Emissions from Ferroalloys	CO ₂	2.0	2.0	<0.01	1.00
CO ₂ Emissions from Petrochemical Production	CO ₂	2.2	2.2	<0.01	1.00
PFC, HFC, and SF ₆ Emissions from Semiconductor Manufacture	SF ₆	2.9	2.9	<0.01	1.00
CO ₂ Emissions from Soda Ash Manufacture and Consumption	CO ₂	4.1	4.1	<0.01	1.00

Table A- 6: 2004 Key Source Category Tier 1 Analysis—Level Assessment, without LULUCF

					Cumulative
	51 . 6116	1990 Estimate			Total of Level
IPCC Source Categories	Direct GHG	(Tg CO ₂ Eq.)	(Tg CO ₂ Eq.)		Assessment
CO ₂ Emissions from Stationary Combustion—Coal	CO ₂	1,683.8	2,027.0		0.29
Mobile Combustion: Road & Other	CO ₂	1,240.6	1,621.5	0.23	0.52
CO ₂ Emissions from Stationary Combustion—Gas	CO ₂	971.0	1153.8	0.16	0.68
CO ₂ Emissions from Stationary Combustion—Oil	CO ₂	580.0	619.9	0.09	0.77
Mobile Combustion: Aviation	CO ₂	177.2	179.6	0.03	0.79
Direct N₂O Emissions from Agricultural Soils	N ₂ O	150.4	170.9	0.02	0.82
CO ₂ Emissions from Non-Energy Use of Fuels	CO ₂	117.2	153.4	0.02	0.84
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	172.3	140.9	0.02	0.86
Fugitive Emissions from Natural Gas Operations	CH ₄	126.7	118.8	0.02	0.88
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	117.9	112.6	0.02	0.89
Emissions from Substitutes for Ozone Depleting Substances	Several	0.4	103.3	0.01	0.91
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N ₂ O	115.7	90.6	0.01	0.92
Fugitive Emissions from Coal Mining and Handling	CH ₄	81.9	56.3	0.01	0.93
Mobile Combustion: Marine	CO ₂	43.6	54.4	0.01	0.93
CO ₂ Emissions from Iron and Steel Production	CO ₂	85.0	51.3	0.01	0.94
CO ₂ Emissions from Cement Production	CO ₂	33.3	45.6	0.01	0.95
Mobile Combustion: Road & Other	N_2O	41.4	40.6	0.01	0.95
CH ₄ Emissions from Manure Management	CH ₄	31.2	39.4	0.01	0.96
CH ₄ Emissions from Wastewater Handling	CH ₄	24.8	36.9	0.01	0.96
Fugitive Emissions from Oil Operations	CH ₄	34.4	25.7	< 0.01	0.97
CO ₂ Emissions from Waste Incineration	CO_2	10.9	19.4	< 0.01	0.97
N ₂ O Emissions from Manure Management	N_2O	16.3	17.7	< 0.01	0.97
CO ₂ Emissions from Ammonia Production and Urea Application	CO_2	19.3	16.9	< 0.01	0.98
N ₂ O Emissions from Nitric Acid Production	N_2O	17.8	16.6	< 0.01	0.98
N ₂ O Emissions from Wastewater Handling	N_2O	12.9	16.0	< 0.01	0.98
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	35.0	15.6	< 0.01	0.98

SF ₆ Emissions from Electrical Equipment	SF_6	28.6	13.8	< 0.01	0.98
CO ₂ Emissions from Lime Production	CO_2	11.2	13.7	< 0.01	0.99
Non-CO ₂ Emissions from Stationary Combustion	N_2O	12.3	13.7	< 0.01	0.99
CH ₄ Emissions from Rice Production	CH_4	7.1	7.6	< 0.01	0.99
CO ₂ Emissions from Limestone and Dolomite Use	CO_2	5.5	6.7	< 0.01	0.99
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	7.9	6.4	< 0.01	0.99
CO ₂ Emissions from Natural Gas Flaring	CO_2	5.8	6.0	< 0.01	0.99
N ₂ O Emissions from Adipic Acid Production	N_2O	15.2	5.7	< 0.01	0.99
Fugitive Emissions from Abandoned Coal Mines	CH ₄	6.0	5.6	< 0.01	0.99
N ₂ O Emissions from N ₂ O Product Usage	N_2O	4.3	4.8	< 0.01	0.99
PFC, HFC, and SF ₆ Emissions from Semiconductor Manufacture	SF_6	2.9	4.7	< 0.01	1.00
CO ₂ Emissions from Aluminum Production	CO_2	7.0	4.3	< 0.01	1.00
CO ₂ Emissions from Soda Ash Manufacture and Consumption	CO_2	4.1	4.2	< 0.01	1.00
CO ₂ Emissions from Petrochemical Production	CO_2	2.2	2.9	< 0.01	1.00
PFC Emissions from Aluminum Production	PFCs	18.4	2.8	< 0.01	1.00
Mobile Combustion: Road & Other	CH_4	4.5	2.7	< 0.01	1.00
SF ₆ Emissions from Magnesium Production	SF ₆	5.4	2.7	< 0.01	1.00
CO ₂ Emissions from Titanium Dioxide Production	CO_2	1.3	2.3	< 0.01	1.00
Mobile Combustion: Aviation	N_2O	1.7	1.8	< 0.01	1.00
CH ₄ Emissions from Petrochemical Production	CH ₄	1.2	1.6	< 0.01	1.00
CO ₂ Emissions from Phosphoric Acid Production	CO_2	1.5	1.4	< 0.01	1.00
CO ₂ Emissions from Ferroalloys	CO_2	2.0	1.3	< 0.01	1.00
CO ₂ Emissions from CO ₂ Consumption	CO_2	0.9	1.2	< 0.01	1.00
CH ₄ Emissions from Iron and Steel Production	CH ₄	1.3	1.0	< 0.01	1.00
CH ₄ Emissions from Agricultural Residue Burning	CH_4	0.7	0.9	< 0.01	1.00
N ₂ O Emissions from Waste Incineration	N_2O	0.5	0.5	< 0.01	1.00
N ₂ O Emissions from Agricultural Residue Burning	N_2O	0.4	0.5	< 0.01	1.00
CO ₂ Emissions from Zinc Production	CO_2	0.9	0.5	< 0.01	1.00
Mobile Combustion: Marine	N_2O	0.4	0.4	< 0.01	1.00
CO ₂ Emissions from Stationary Combustion—Geothermal Energy	CO_2	0.4	0.4	< 0.01	1.00
CO ₂ Emissions from Lead Production	CO_2	0.3	0.3	< 0.01	1.00
Mobile Combustion: Aviation	CH ₄	0.2	0.1	< 0.01	1.00
CO ₂ Emissions from Silicon Carbide Consumption	CO_2	0.1	0.1	< 0.01	1.00
Mobile Combustion: Marine	CH ₄	0.1	0.1	< 0.01	1.00
CH ₄ Emissions from Silicon Carbide Production	CH ₄	0.0	0.0	< 0.01	1.00
TOTAL		6,103.3	7,067.6	1.00	

Note: LULUCF sources and sinks are not included in this analysis.

Table A-7: 2004 Key Source Category Tier 1 Analysis—Level Assessment with LULUCF

					Cumulative Total of
		1990 Estimate	2004 Estimate	Level	Level
IPCC Source Categories	Direct GHG	(Tg CO₂ Eq.)	(Tg CO ₂ Eq.)	Assessment	Assessment
CO ₂ Emissions from Stationary Combustion—Coal	CO_2	1,683.8	2,027.0	0.26	0.26
Mobile Combustion: Road & Other	CO ₂	1,240.6	1,621.5	0.21	0.46
CO ₂ Emissions from Stationary Combustion—Gas	CO ₂	971.0	1,153.8	0.15	0.61
CO ₂ Emissions from Forest Land Remaining Forest Land	CO_2	773.4	637.2	0.08	0.69
CO ₂ Emissions from Stationary Combustion—Oil	CO ₂	580.0	619.9	0.08	0.77
Mobile Combustion: Aviation	CO ₂	177.2	179.6	0.02	0.79
Direct N ₂ O Emissions from Agricultural Soils	N_2O	150.4	170.9	0.02	0.81
CO ₂ Emissions from Non-Energy Use of Fuels	CO ₂	117.2	153.4	0.02	0.83
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	172.3	140.9	0.02	0.85
Fugitive Emissions from Natural Gas Operations	CH ₄	126.7	118.8	0.02	0.87
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	117.9	112.6	0.01	0.88
Emissions from Substitutes for Ozone Depleting Substances	Several	0.4	103.3	0.01	0.89
CO ₂ Emissions from Settlements Remaining Settlements	CO_2	83.2	97.3	0.01	0.91

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Mobile Combustim: Marine:	· · · · · · · · · · · · · · · · · · ·					-
CO_Emissions from Cement Production						-
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Fugitive Emissions from Oil Operations	-					0.96
CO2 Insissions from Land Converted to Grassland CO2 17.6 21.1 -0.01 0.97 CO3 Emissions from Waste Incineration CO2 10.9 11.4 -0.01 0.97 NO2 Emissions from Manure Management N.20 16.3 11.7 -0.01 0.98 NO2 Emissions from Manure Management CO2 19.3 16.9 -0.01 0.98 NO2 Emissions from Morth Code Type Optical Construction N.20 17.9 16.0 -0.01 0.98 NO2 Emissions from Micro Ender Handling N.20 12.9 16.0 -0.01 0.98 HFC-23 Emissions from Electrical Equipment SF3 28.6 13.8 -0.01 0.98 CO2 Emissions from Electrical Equipment SF3 28.6 13.8 -0.01 0.98 CO2 Emissions from Electrical Equipment SF3 28.6 13.8 -0.01 0.99 CO3 Emissions from Electrical Equipment N.20 11.2 13.7 -0.01 0.99 CHE Emissions from Grassland Remaining Grassland CO3 15.5 <		CH_4	34.4	25.7	< 0.01	0.97
No.D Emissions from Mamure Management N.D 16.3 17.7 c.0.01 0.98 N.D Emissions from Mamure Management N.D 17.8 16.6 c.0.01 0.98 N.D Emissions from Miltro Acid Production N.D 17.8 16.6 c.0.01 0.98 N.D Emissions from Wastewater Handling N.D 17.9 16.0 c.0.01 0.98 N.D Emissions from Wastewater Handling N.D 17.9 16.0 c.0.01 0.98 N.D Emissions from Emissions from Production N.D 17.2 13.7 c.0.01 0.98 S.F. Emissions from Stationary Combustion N.D 12.3 13.7 c.0.01 0.99 C.D. Emissions from Rich Emproduction N.D 12.3 13.7 c.0.01 0.99 C.D. Emissions from Rich Emailing Grassland C.D 4.5 7.3 c.0.01 0.99 C.D. Emissions from Crassland Remaining Grassland C.D 4.5 7.3 c.0.01 0.99 C.D. Emissions from Stationary Combustion C.H 7.9 6.4 c.0.01 0.99 V.D Emissions from Stationary Combustion C.H 7.9 6.4 c.0.01 0.99 V.D Emissions from Stationary Combustion C.H 7.9 6.4 c.0.01 0.99 V.D Emissions from Matural Gas Flaring C.D 5.8 6.0 c.0.01 0.99 V.D Emissions from Matural Gas Flaring C.D 5.8 6.0 c.0.01 0.99 V.D Emissions from Matural Gas Flaring C.D 5.8 6.0 c.0.01 0.99 V.D Emissions from Nathrona Colon Milnes C.H 6.0 5.6 c.0.01 0.99 V.D Emissions from Management Colon Milnes C.H 6.0 5.6 c.0.01 0.99 V.D Emissions from Management Colon Milnes C.D 7.0 4.3 c.0.01 0.99 V.D Emissions from South Management Colon Milnes C.D 7.0 4.3 c.0.01 0.00 V.D Emissions from South Management Colon Milnes C.D 7.0 4.3 c.0.01 0.00 V.D Emissions from South Management Colon Milnes C.D 7.0 4.3 c.0.01 0.00 V.D Emissions from Management Colon Milnes C.D 7.0 4.1 4.2 c.0.01 0.00 V.D Emissions from Management Colon Management Colon Milnes C.D 7.0 4.3 c.0.01 0.00 V.D Em		CO_2	17.6	21.1	< 0.01	0.97
No.D Emissions from Mamure Management No.D 16.3 17.7 c.011 0.97	CO ₂ Emissions from Waste Incineration	CO_2	10.9	19.4	< 0.01	0.97
CO₂ 19.3 16.9 <0.01 0.98 XO₂ Emissions from Nitric Acid Production N₂O 17.8 16.6 <0.01 0.98 N₂O Emissions from Wastewater Handling N₂O 12.9 16.0 <0.01 0.98 HFC-22 Emissions from HCFC-22 Manufacture HFCs 35.0 15.6 <0.01 0.98 K9∠ Emissions from Electrical Equipment SF₀ 28.6 13.8 <0.01 0.99 K9∠ Emissions from Diatrophy Corpustrical SF₀ 28.6 13.8 <0.01 0.99 Non-Co₂ Emissions from Stationary Combustion N₂O 12.3 13.7 <0.01 0.99 CO₂ Emissions from Stationary Combustion CH₁ 7.7 <0.01 0.99 CO₂ Emissions from Stationary Combustion CH₁ 7.7 <0.01 0.99 NO Emissions from Stationary Combustion CH₁ 7.9 6.4 <0.01 0.99 NO Emissions from Stationary Combustion CH₁ 7.9 6.4 <0.01 0.99 NO Emissions from Maturia Cure SF₀	N ₂ O Emissions from Manure Management	N_2O	16.3			0.97
No Demissions from Ninite Acid Production No Demissions from Wastewater Handling No Demissions from Wastewater Handling No Demissions from Wastewater Handling No Demissions from Handling No Demissions from Handling No Demissions from Handling No Demissions from Line Production No Demissions from Stationary Combustion No Demissions from Stationary Combustion No Demissions from Rise Production No Demissions from Rise Production No Demissions from Remaining Grassland CO ₂		CO_2	19.3	16.9	< 0.01	0.98
N-D Emissions from Washewater Handling N₂0 12.9 16.0 -0.01 0.98 FF. Emissions from Electrical Equipment SF₀ 28.6 13.8 -0.01 0.98 FF. Emissions from Electrical Equipment SF₀ 28.6 13.8 -0.01 0.99 CO₂ Emissions from Electrical Equipment SF₀ 28.6 13.8 -0.01 0.99 CO₂ Emissions from Electrical Equipment SF₀ 28.6 13.8 -0.01 0.99 CO₂ Emissions from Electrical Equipment SF₀ 28.6 13.8 -0.01 0.99 CO₂ Emissions from Rice Production CO₂ 11.2 13.7 -0.01 0.99 CO₂ Emissions from Rice Production CH₄ 7.1 7.6 -0.01 0.99 CO₂ Emissions from Rice Production CH₄ 7.1 7.6 -0.01 0.99 CO₂ Emissions from Limestone and Dolomite Use CO₂ 5.5 6.7 -0.01 0.99 N₀ Emissions from Editements Remaining Settlements N₀ 5.6 6 6.4 -0.01 0.99 N₀ Emissions from Stationary Combustion CH₄ 7.9 6.4 -0.01 0.99 CO₂ Emissions from Natural Cas Flaring CO₂ 5.8 6.0 -0.01 0.99 N₀ Emissions from Natural Cas Flaring CO₂ 5.8 6.0 -0.01 0.99 N₀ Emissions from Natural Cas Flaring CO₂ 5.8 6.0 -0.01 0.99 N₀ Emissions from No Production N₃ 6 5.6 -0.01 0.99 N₀ Emissions from No Production N₃ 6 5.6 -0.01 0.99 N₀ Emissions from No Production N₃ 6 5.6 -0.01 0.99 N₀ Emissions from No Production N₃ 6 5.6 -0.01 0.99 N₀ Emissions from No Production N₃ 6 5.6 -0.01 0.99 N₀ Emissions from No Production CO₂ 5.0 4.3 4.8 -0.01 1.00 CO₂ Emissions from No Production CO₂ 7.0 4.3 4.8 -0.01 1.00 CO₂ Emissions from No Production CO₂ 7.0 4.3 -0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 7.0 4.3 -0.01 1.00 CO₂ Emissions from Petrochemical Production PFCs 18.4 2.8 -0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 2.8 -0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 2.8 -0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 2.8 -0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 1.4 0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 1.4 0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 1.4 0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 0.0 1	• •					
HFCs 350 15.6 <.0.01 0.98 SF6 Emissions from Electrical Equipment SF6 28.6 13.8 <.0.01 0.98 CO; Emissions from Lime Production CO; 11.2 13.7 <.0.01 0.99 Non-CO; Emissions from Stationary Combustion CH, 7.1 7.6 <.0.01 0.99 CH. Emissions from Rele Production CH, 7.1 7.6 <.0.01 0.99 CH. Emissions from Rele Production CH, 7.1 7.6 <.0.01 0.99 CO; Emissions from Grassland Remaining Grassland CO; 4.5 7.3 <.0.01 0.99 CO; Emissions from Grassland Remaining Grassland CO; 5.5 6.7 <.0.01 0.99 CO; Emissions from Elimestone and Dolomite Use CO; 5.5 6.7 <.0.01 0.99 Non-CO; Emissions from Stationary Combustion CH, 7.9 6.4 <.0.01 0.99 Non-CO; Emissions from Stationary Combustion CH, 7.9 6.4 <.0.01 0.99 Non-CO; Emissions from Natural Gas Flaring CO; 5.8 6.0 <.0.01 0.99 No; De Emissions from Alpina Cald Production N; O 15.2 5.7 <0.01 0.99 No; De Emissions from Alpina Cald Production N; O 15.2 5.7 <0.01 0.99 No; De Emissions from Alpina Cald Production N; O 15.2 5.7 <0.01 0.99 No; De Emissions from No; Definition of N; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from No; O 15.2 5.7 <0.01 0.99 No; Definissions from Sada Ash Manufacture of Consumption CO; To; O 4.1 4.2 0.01 1.00 No; Definissions from Petrochemical Production CO; D 1.5 2.8 0.01 1.00 No; D 10.0 10.0 10.0 10.0 10.0 10.0 No; D 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0		N_2O	12.9	16.0	< 0.01	0.98
SF ₆ Emissions from Electrical Equipment SF ₆ (28.6) 13.8 <0.01 0.98 CO₂ Emissions from Lime Production CO₂ 11.2 13.7 <0.01	•	HFCs	35.0	15.6	< 0.01	0.98
CO₂ Emissions from Ime Production CO₂ Emissions from Stationary Combustion N₂O 11.2 13.7 <0.01 0.99 Non-CO₂ Emissions from Rice Production CH4 7.1 7.6 <0.01 0.99 CO₂ Emissions from Rice Production CH4 7.1 7.6 <0.01 0.99 CO₂ Emissions from Sastand Remaining Grassland CO₂ 4.5 7.3 <0.01 0.99 CO₂ Emissions from Settlements Remaining Settlements N₂O 5.5 6.7 <0.01 0.99 N₀O Emissions from Settlements Remaining Settlements N₂O 5.5 6.4 <0.01 0.99 N₀O Emissions from Settlements Remaining Settlements N₂O 5.5 6.4 <0.01 0.99 N₀O Emissions from Matural Gas Flaring CO₂ 5.8 6.0 <0.01 0.99 N₀O Emissions from Adipic Acid Production N₂O 15.2 5.7 <0.01 0.99 N₀O Emissions from Adipic Acid Production N₂O 4.3 4.8 <0.01 0.99 PC, HFC, and SF₂ Emissions from Semiconductor Manufacture SF₂		SF ₆				
Non-CO₂ Emissions from Stationary Combustion N₂O 12.3 13.7 <0.01 0.99 CH₂ Emissions from Rice Production CH₄ 7.1 7.6 0.001 0.99 CO₂ Emissions from Grassland Remaining Grassland CO₂ 4.5 7.3 0.01 0.99 CO₂ Emissions from Limestone and Dolomite Use CO₂ 5.5 6.7 0.001 0.99 N₂O Emissions from Stationary Combustion CH₄ 7.9 6.4 0.01 0.99 CO₂ Emissions from Stationary Combustion CH₄ 7.9 6.4 0.01 0.99 CO₂ Emissions from Stationary Combustion CH₄ 7.9 6.4 0.01 0.99 CO₂ Emissions from Natural Gas Flaring CO₂ 5.8 0.0 0.01 0.99 CO₂ Emissions from Adipic Acid Production N₂O 15.2 5.7 0.01 0.99 N₂O Emissions from Adipic Acid Production N₂O 15.2 5.7 0.01 0.99 N₂O Emissions from Adipic Acid Production N₂O 15.2 5.7 0.01 0.99 N₂O Emissions from Natural Gas Flaring CO₂ 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0						
CH₄ Emissions from Rice Production CH₄ 7.1 7.6 <0.01 0.99 CO₂ Emissions from Grassland Remaining Grassland CO₂ 4.5 7.3 -0.01 0.99 N₂O Emissions from Settlements Remaining Settlements N₂O 5.6 6.4 <0.01			12.3		< 0.01	0.99
CO₂ Emissions from Grassland Remaining Grassland CO₂ 4.5 7.3 <0.01 0.99 CO₂ Emissions from Unerstone and Dolomite Use CO₂ 5.5 6.7 <0.01	· · · · · · · · · · · · · · · · · · ·				< 0.01	0.99
CO₂ Emissions from Limestone and Dolomitle Use CO₂ 5.5 6.7 <0.01 0.99 N₂O Emissions from Settlements Remaining Settlements N₂O 5.6 6.4 <0.01						
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CO₂ Emissions from Natural Gas Flaring CO₂ brissions from Adipic Acid Production 0.90 15.2 5.7 0.01 0.99 N₂O Emissions from Adipic Acid Production N₂O 15.2 5.7 0.01 0.99 Fugitive Emissions from Adonded Coal Mines CH₄ 6.0 5.6 0.01 0.99 N₂O Emissions from N₂O Product Usage N₂O 4.3 4.8 0.01 0.99 PFC, HFC, and SF₀ Emissions from Semiconductor Manufacture SF₀ 2.9 4.7 <0.01 1.00 CO₂ Emissions from Aluminum Production CO₂ 4.1 4.2 <0.01 1.00 CO₂ Emissions from Aluminum Production CO₂ 2.2 2.9 <0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 2.8 <0.01 1.00 CO₂ Emissions from Petrochemical Production CO₂ 1.5 2.8 <0.01 1.00 CO₂ Emissions from Maluminum Production SF₀ 1.4 4.2 <0.01 1.00 For Emissions from Magn	· ·					
N₂O Emissions from Adipic Acid Production N₂O 15.2 5.7 <0.01 0.99 Fugitive Emissions from Abandoned Coal Mines CH₄ 6.0 5.6 <0.01	· · · · · · · · · · · · · · · · · · ·					
Fugitive Emissions from Abandoned Coal Mines	•					
N2O Emissions from N2O Product Usage N2O 4.3 4.8 <0.01 0.99 PFC, HFC, and SFs Emissions from Semiconductor Manufacture SFs 2.9 4.7 <0.01	·					
PFC, HFC, and SF ₆ Emissions from Semiconductor Manufacture SF ₆ 2.9 4.7 <0.01 1.00 CO ₂ Emissions from Aluminum Production CO ₂ 7.0 4.3 <0.01 1.00 CO ₂ Emissions from Soda Ash Manufacture and Consumption CO ₂ 4.1 4.2 <0.01 1.00 CO ₂ Emissions from Petrochemical Production CO ₂ 2.2 2.9 <0.01 1.00 PFC Emissions from Aluminum Production PFCs 18.4 2.8 <0.01 1.00 CO ₂ Emissions from Land Converted to Cropland CO ₂ 1.5 2.8 <0.01 1.00 Mobile Combustion: Road & Other CH4 4.5 2.7 <0.01 1.00 SF ₆ Emissions from Magnesium Production SF ₆ 5.4 2.7 <0.01 1.00 CO ₂ Emissions from Magnesium Production CO ₂ 1.3 2.3 <0.01 1.00 CO ₂ Emissions from Magnesium Production CO ₂ 1.3 2.3 <0.01 1.00 CO ₄ Emissions from Phosphoric Acid Production CP ₄ 1.2 6 </td <td></td> <td></td> <td></td> <td></td> <td>< 0.01</td> <td></td>					< 0.01	
CO2 Emissions from Aluminum Production CO2 Prissions from Soda Ash Manufacture and Consumption CO2 CO2 Prissions from Soda Ash Manufacture and Consumption CO2 Prissions from Soda Ash Manufacture and Consumption CO2 Prissions from Petrochemical Production CO2 Prissions from Petrochemical Production CO2 Prissions from Petrochemical Production PFCS PFC Prissions from Aluminum Production PFCS PFC PFC PFC PFC PFC PFCS 18.4 2.8 <0.01 1.00 CO2 Emissions from Aluminum Production CO2 PFC	· · · · · · · · · · · · · · · · · · ·				< 0.01	1.00
CO2 Emissions from Soda Ash Manufacture and Consumption CO2 4.1 4.2 <0.01 1.00 CO2 Emissions from Petrochemical Production CO2 2.2 2.9 <0.01		CO_2	7.0	4.3	< 0.01	1.00
CO₂ Emissions from Petrochemical Production CO₂ PFC Emissions from Aluminum Production CO₂ PFC Emissions from Aluminum Production PFCs PFC		CO_2	4.1	4.2	< 0.01	1.00
CO₂ Emissions from Land Converted to Cropland CO₂ 1.5 2.8 <0.01 1.00 Mobile Combustion: Road & Other CH4 4.5 2.7 <0.01	•	CO_2	2.2	2.9	< 0.01	1.00
Mobile Combustion: Road & Other CH4 4.5 2.7 <0.01 1.00 SF ₆ Emissions from Magnesium Production SF ₆ 5.4 2.7 <0.01	PFC Emissions from Aluminum Production	PFCs			< 0.01	
Mobile Combustion: Road & Other CH4 4.5 2.7 <0.01 1.00 SF ₆ Emissions from Magnesium Production SF ₆ 5.4 2.7 <0.01	CO ₂ Emissions from Land Converted to Cropland	CO_2	1.5	2.8	< 0.01	1.00
SF6 Emissions from Magnesium Production SF6 5.4 2.7 <0.01 1.00 CO2 Emissions from Titanium Dioxide Production CO2 1.3 2.3 <0.01	•	CH ₄	4.5	2.7	< 0.01	1.00
CO2 Emissions from Titanium Dioxide Production CO2 1.3 2.3 <0.01 1.00 Mobile Combustion: Aviation N2O 1.7 1.8 <0.01	SF ₆ Emissions from Magnesium Production			2.7		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			1.3	2.3	< 0.01	1.00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mobile Combustion: Aviation	N_2O	1.7	1.8	< 0.01	1.00
$ \begin{array}{c} \text{CO}_2 \text{ Emissions from Ferroalloys} & \text{CO}_2 & 2.0 & 1.3 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from CO}_2 \text{ Consumption} & \text{CO}_2 & 0.9 & 1.2 & <0.01 & 1.00 \\ \text{CH}_4 \text{ Emissions from Iron and Steel Production} & \text{CH}_4 & 1.3 & 1.0 & <0.01 & 1.00 \\ \text{CH}_4 \text{ Emissions from Agricultural Residue Burning} & \text{CH}_4 & 0.7 & 0.9 & <0.01 & 1.00 \\ \text{N}_2\text{O} \text{ Emissions from Waste Incineration} & \text{N}_2\text{O} & 0.5 & 0.5 & <0.01 & 1.00 \\ \text{N}_2\text{O} \text{ Emissions from Agricultural Residue Burning} & \text{N}_2\text{O} & 0.4 & 0.5 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Zinc Production} & \text{CO}_2 & 0.9 & 0.5 & <0.01 & 1.00 \\ \text{Mobile Combustion: Marine} & \text{N}_2\text{O} & 0.4 & 0.4 & <0.01 & 1.00 \\ \text{N}_2\text{O} \text{ Emissions from Forest Land Remaining Forest Land} & \text{N}_2\text{O} & 0.1 & 0.4 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Stationary Combustion—Geothermal Energy} & \text{CO}_2 & 0.4 & 0.4 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Lead Production} & \text{CO}_2 & 0.3 & 0.3 & <0.01 & 1.00 \\ \text{Mobile Combustion: Aviation} & \text{CH}_4 & 0.2 & 0.1 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Silicon Carbide Consumption} & \text{CO}_2 & 0.1 & 0.1 & <0.01 & 1.00 \\ \text{Mobile Combustion: Marine} & \text{CH}_4 & 0.1 & 0.1 & <0.01 & 1.00 \\ \end{array}$						
$ \begin{array}{c} \text{CO}_2 \text{ Emissions from Ferroalloys} & \text{CO}_2 & 2.0 & 1.3 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from CO}_2 \text{ Consumption} & \text{CO}_2 & 0.9 & 1.2 & <0.01 & 1.00 \\ \text{CH}_4 \text{ Emissions from Iron and Steel Production} & \text{CH}_4 & 1.3 & 1.0 & <0.01 & 1.00 \\ \text{CH}_4 \text{ Emissions from Agricultural Residue Burning} & \text{CH}_4 & 0.7 & 0.9 & <0.01 & 1.00 \\ \text{N}_2\text{O} \text{ Emissions from Waste Incineration} & \text{N}_2\text{O} & 0.5 & 0.5 & <0.01 & 1.00 \\ \text{N}_2\text{O} \text{ Emissions from Agricultural Residue Burning} & \text{N}_2\text{O} & 0.4 & 0.5 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Zinc Production} & \text{CO}_2 & 0.9 & 0.5 & <0.01 & 1.00 \\ \text{Mobile Combustion: Marine} & \text{N}_2\text{O} & 0.4 & 0.4 & <0.01 & 1.00 \\ \text{N}_2\text{O} \text{ Emissions from Forest Land Remaining Forest Land} & \text{N}_2\text{O} & 0.1 & 0.4 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Stationary Combustion—Geothermal Energy} & \text{CO}_2 & 0.4 & 0.4 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Lead Production} & \text{CO}_2 & 0.3 & 0.3 & <0.01 & 1.00 \\ \text{Mobile Combustion: Aviation} & \text{CH}_4 & 0.2 & 0.1 & <0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Silicon Carbide Consumption} & \text{CO}_2 & 0.1 & 0.1 & <0.01 & 1.00 \\ \text{Mobile Combustion: Marine} & \text{CH}_4 & 0.1 & 0.1 & <0.01 & 1.00 \\ \end{array}$	CO ₂ Emissions from Phosphoric Acid Production	CO_2	1.5	1.4	< 0.01	1.00
$ \begin{array}{c} \text{CO}_2 \text{ Emissions from CO}_2 \text{ Consumption} & \text{CO}_2 & 0.9 & 1.2 & < 0.01 & 1.00 \\ \text{CH}_4 \text{ Emissions from Iron and Steel Production} & \text{CH}_4 & 1.3 & 1.0 & < 0.01 & 1.00 \\ \text{CH}_4 \text{ Emissions from Agricultural Residue Burning} & \text{CH}_4 & 0.7 & 0.9 & < 0.01 & 1.00 \\ \text{N}_2 \text{O Emissions from Waste Incineration} & \text{N}_2 \text{O} & 0.5 & 0.5 & < 0.01 & 1.00 \\ \text{N}_2 \text{O Emissions from Agricultural Residue Burning} & \text{N}_2 \text{O} & 0.4 & 0.5 & < 0.01 & 1.00 \\ \text{N}_2 \text{O Emissions from Agricultural Residue Burning} & \text{CO}_2 & 0.9 & 0.5 & < 0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Zinc Production} & \text{CO}_2 & 0.9 & 0.5 & < 0.01 & 1.00 \\ \text{Mobile Combustion: Marine} & \text{N}_2 \text{O} & 0.4 & 0.4 & < 0.01 & 1.00 \\ \text{N}_2 \text{O Emissions from Forest Land Remaining Forest Land} & \text{N}_2 \text{O} & 0.1 & 0.4 & < 0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Stationary Combustion—Geothermal Energy} & \text{CO}_2 & 0.4 & 0.4 & < 0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Lead Production} & \text{CO}_2 & 0.3 & 0.3 & < 0.01 & 1.00 \\ \text{Mobile Combustion: Aviation} & \text{CH}_4 & 0.2 & 0.1 & < 0.01 & 1.00 \\ \text{CO}_2 \text{ Emissions from Silicon Carbide Consumption} & \text{CO}_2 & 0.1 & 0.1 & < 0.01 & 1.00 \\ \text{Mobile Combustion: Marine} & \text{CH}_4 & 0.1 & 0.1 & < 0.01 & 1.00 \\ \end{array}$	·					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	·	CH ₄	1.3	1.0	< 0.01	1.00
N_2O Emissions from Waste Incineration N_2O 0.5 <0.01 1.00 N_2O Emissions from Agricultural Residue Burning N_2O 0.4 0.5 <0.01 1.00 CO_2 Emissions from Zinc Production CO_2 0.9 0.5 <0.01 1.00 Mobile Combustion: Marine N_2O 0.4 0.4 <0.01 1.00 N_2O Emissions from Forest Land Remaining Forest Land N_2O 0.1 0.4 <0.01 1.00 CO_2 Emissions from Stationary Combustion—Geothermal Energy CO_2 0.4 0.4 <0.01 1.00 CO_2 Emissions from Lead Production CO_2 0.3 0.3 <0.01 1.00 Mobile Combustion: Aviation CH_4 0.2 0.1 <0.01 1.00 CO_2 Emissions from Silicon Carbide Consumption CO_2 0.1 <0.01 <0.01 1.00 Mobile Combustion: Marine CH_4 <0.1 <0.1 <0.01 <0.01 <0.01						
CO_2 Emissions from Zinc Production CO_2 0.9 0.5 <0.01 1.00 Mobile Combustion: Marine N_2O 0.4 0.4 <0.01 1.00 N_2O Emissions from Forest Land Remaining Forest Land N_2O 0.1 0.4 <0.01 1.00 CO_2 Emissions from Stationary Combustion—Geothermal Energy CO_2 0.4 0.4 <0.01 1.00 CO_2 Emissions from Lead Production CO_2 0.3 0.3 <0.01 1.00 Mobile Combustion: Aviation CH_4 0.2 0.1 <0.01 1.00 CO_2 Emissions from Silicon Carbide Consumption CO_2 0.1 <0.1 <0.01 1.00 Mobile Combustion: Marine CH_4 <0.1 <0.1 <0.01 <0.01 <0.01	ů ů		0.5	0.5		
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TOTAL 7,022.3 7,869.0 1.00

Table A-8: 1990-2004 Key Source Category Tier 1 Analysis—Trend Assessment, without LULUCF

IPCC Source Categories	Direct GHG	1990 Estimate (Tg CO ₂ Eq.)	2004 Estimate (Tg CO ₂ Eq.)	Trend Assessment	Percent Contribution to Trend (%)	Cumulative Contribution to Trend (%)
Mobile Combustion: Road & Other	CO ₂	1,240.6	1,621.5	0.02	20.7	20.7
Emissions from Substitutes for Ozone Depleting		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Substances	Several	0.4	103.3	0.01	11.5	32.2
CO ₂ Emissions from Stationary Combustion—Coal	CO_2	1,683.8	2,027.0	0.01	8.6	40.9
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	172.3	140.9	0.01	6.6	47.5
CO ₂ Emissions from Stationary Combustion—Oil	CO ₂	580.0	619.9	0.01	5.8	53.2
CO ₂ Emissions from Iron and Steel Production Indirect N ₂ O Emissions from Nitrogen Used in	CO ₂	85.0	51.3	0.01	5.3	58.5
Agriculture	N_2O	115.7	90.6	0.01	4.9	63.4
Fugitive Emissions from Coal Mining and Handling	CH ₄	81.9	56.3	<0.01	4.3	67.7
CO ₂ Emissions from Stationary Combustion—Gas	CO_2	971.0	1,153.8	< 0.01	3.3	71.0
Fugitive Emissions from Natural Gas Operations	CH ₄	126.7	118.8	<0.01	3.1	74.1
Mobile Combustion: Aviation	CO_2	177.2	179.6	<0.01	2.9	77.0
HFC-23 Emissions from HCFC-22 Manufacture CH ₄ Emissions from Enteric Fermentation in	HFCs	35.0	15.6	<0.01	2.8	79.8
Domestic Livestock	CH ₄	117.9	112.6	<0.01	2.7	82.5
SF ₆ Emissions from Electrical Equipment	SF ₆	28.6	13.8	<0.01	2.2	84.6
PFC Emissions from Aluminum Production	PFCs	18.4	2.8	<0.01	2.1	86.7
CO ₂ Emissions from Non-Energy Use of Fuels	CO ₂	117.2	153.4	< 0.01	2.0	88.7
Fugitive Emissions from Oil Operations	CH ₄	34.4	25.7	<0.01	1.6	90.3
N ₂ O Emissions from Adipic Acid Production	N_2O	15.2	5.7	<0.01	1.3	91.6
CH ₄ Emissions from Wastewater Handling	CH ₄	24.8	36.9	<0.01	0.9	92.5
Mobile Combustion: Road & Other	N ₂ O	41.4	40.6	<0.01	0.8	93.3
CO ₂ Emissions from Cement Production	CO_2	33.3	45.6	< 0.01	0.8	94.1
CO_2 Emissions from Waste Incineration CO_2 Emissions from Ammonia Production and Urea	CO ₂	10.9	19.4	<0.01	0.8	94.9
Application	CO ₂	19.3	16.9	< 0.01	0.6	95.5
N ₂ O Emissions from Nitric Acid Production	N_2O	17.8	16.6	< 0.01	0.5	95.9
Mobile Combustion: Marine	CO_2	43.6	54.4	< 0.01	0.4	96.4
CO ₂ Emissions from Aluminum Production	CO_2	7.0	4.3	< 0.01	0.4	96.8
SF ₆ Emissions from Magnesium Production	SF ₆	5.4	2.7	< 0.01	0.4	97.2
CH ₄ Emissions from Manure Management	CH ₄	31.2	39.4	< 0.01	0.4	97.6
Direct N ₂ O Emissions from Agricultural Soils	N_2O	150.4	170.9	< 0.01	0.4	97.9
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	7.9	6.4	< 0.01	0.3	98.2
Mobile Combustion: Road & Other PFC, HFC, and SF ₆ Emissions from Semiconductor	CH ₄	4.5	2.7	<0.01	0.3	98.5
Manufacture	SF ₆	2.9	4.7	< 0.01	0.1	98.7
Fugitive Emissions from Abandoned Coal Mines	CH ₄	6.0	5.6	<0.01	0.1	98.8
N ₂ O Emissions from Manure Management	N_2O	16.3	17.7	< 0.01	0.1	98.9
N ₂ O Emissions from Wastewater Handling	N_2O	12.9	16.0	< 0.01	0.1	99.1
CO ₂ Emissions from Ferroalloys	CO_2	2.0	1.3	< 0.01	0.1	99.2
CO ₂ Emissions from Titanium Dioxide Production	CO_2	1.3	2.3	< 0.01	0.1	99.3
CO ₂ Emissions from Natural Gas Flaring	CO_2	5.8	6.0	< 0.01	0.1	99.3
CH ₄ Emissions from Rice Production	CH ₄	7.1	7.6	< 0.01	0.1	99.4
CO ₂ Emissions from Lime Production CO ₂ Emissions from Soda Ash Manufacture and	CO ₂	11.2	13.7	<0.01	0.1	99.5
Consumption	CO_2	4.1	4.2	< 0.01	0.1	99.6
CO ₂ Emissions from Zinc Production	CO_2	0.9	0.5	< 0.01	0.1	99.6
Non-CO ₂ Emissions from Stationary Combustion	N_2O	12.3	13.7	< 0.01	0.1	99.7
CH ₄ Emissions from Iron and Steel Production	CH ₄	1.3	1.0	< 0.01	0.1	99.7
CO ₂ Emissions from Phosphoric Acid Production	CO_2	1.5	1.4	<0.01	<0.01	99.8

CO ₂ Emissions from Petrochemical Production	CO_2	2.2	2.9	< 0.01	< 0.01	99.8
CO ₂ Emissions from Limestone and Dolomite Use	CO_2	5.5	6.7	< 0.01	< 0.01	99.8
CH ₄ Emissions from Petrochemical Production	CH ₄	1.2	1.6	< 0.01	< 0.01	99.9
Mobile Combustion: Aviation	N_2O	1.7	1.8	< 0.01	< 0.01	99.9
N ₂ O Emissions from N ₂ O Product Usage	N_2O	4.3	4.8	< 0.01	< 0.01	99.9
CO ₂ Emissions from CO ₂ Consumption	CO_2	0.9	1.2	< 0.01	< 0.01	99.9
CO ₂ Emissions from Stationary Combustion—						
Geothermal Energy	CO_2	0.4	0.4	< 0.01	< 0.01	100.0
N ₂ O Emissions from Agricultural Residue Burning	N_2O	0.4	0.5	< 0.01	< 0.01	100.0
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.7	0.9	< 0.01	< 0.01	100.0
CO ₂ Emissions from Lead Production	CO_2	0.3	0.3	< 0.01	< 0.01	100.0
Mobile Combustion: Aviation	CH_4	0.2	0.1	< 0.01	< 0.01	100.0
Mobile Combustion: Marine	N_2O	0.4	0.4	< 0.01	< 0.01	100.0
N ₂ O Emissions from Waste Incineration	N_2O	0.5	0.5	< 0.01	< 0.01	100.0
CH ₄ Emissions from Silicon Carbide Production	CH_4	0.0	0.0	< 0.01	< 0.01	100.0
CO ₂ Emissions from Silicon Carbide Consumption	CO_2	0.1	0.1	< 0.01	< 0.01	100.0
Mobile Combustion: Marine	CH ₄	0.1	0.1	<0.01	< 0.01	100.0
TOTAL		6,103.3	7,067.6	0.11		

Note: LULUCF sources and sinks are not included in this analysis.

Table A- 9: 1990-2004 Key Source Category Tier 1 Analysis—Trend Assessment, with LULUCF

IPCC Source Categories	Direct GHG	1990 Estimate (Tg CO ₂ Eq.)	2004 Estimate (Tg CO ₂ Eq.)	Trend Assessment	Percent Contribution to Trend (%)	Cumulative Contribution to Trend (%)
Mobile Combustion: Road & Other	CO ₂	1,240.6	1,621.5	0.03	18.8	18.8
CO ₂ Emissions from Forest Land Remaining Forest		,	, ,			
Land	CO ₂	773.4	637.2	0.03	18.7	37.5
CO ₂ Emissions from Stationary Combustion—Coal	CO_2	1,683.8	2,027.0	0.02	11.4	48.9
Emissions from Substitutes for Ozone Depleting						
Substances	Several	0.4	103.3	0.01	8.3	57.2
CO ₂ Emissions from Stationary Combustion—Gas	CO_2	971.0	1,153.8	0.01	5.3	62.6
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	172.3	140.9	0.01	4.2	66.8
CO ₂ Emissions from Iron and Steel Production	CO_2	85.0	51.3	< 0.01	3.6	70.4
Indirect N ₂ O Emissions from Nitrogen Used in						
Agriculture	N_2O	115.7	90.6	<0.01	3.2	73.6
Fugitive Emissions from Coal Mining and Handling	CH ₄	81.9	56.3	<0.01	2.9	76.4
CO ₂ Emissions from Stationary Combustion—Oil	CO_2	580.0	619.9	<0.01	2.4	78.9
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	35.0	15.6	< 0.01	1.9	80.8
Fugitive Emissions from Natural Gas Operations	CH ₄	126.7	118.8	<0.01	1.9	82.7
CO ₂ Emissions from Non-Energy Use of Fuels	CO_2	117.2	153.4	< 0.01	1.8	84.5
CH ₄ Emissions from Enteric Fermentation in						
Domestic Livestock	CH ₄	117.9	112.6	<0.01	1.6	86.1
Mobile Combustion: Aviation	CO ₂	177.2	179.6	<0.01	1.5	87.6
SF ₆ Emissions from Electrical Equipment	SF ₆	28.6	13.8	< 0.01	1.5	89.1
PFC Emissions from Aluminum Production	PFCs	18.4	2.8	<0.01	1.4	90.5
Fugitive Emissions from Oil Operations	CH ₄	34.4	25.7	< 0.01	1.1	91.6
N ₂ O Emissions from Adipic Acid Production	N_2O	15.2	5.7	< 0.01	0.9	92.5
CH ₄ Emissions from Wastewater Handling	CH ₄	24.8	36.9	< 0.01	0.7	93.3
CO ₂ Emissions from Cement Production	CO_2	33.3	45.6	< 0.01	0.7	93.9
CO ₂ Emissions from Cropland Remaining Cropland	CO_2	33.1	28.9	< 0.01	0.7	94.6
CO ₂ Emissions from Waste Incineration	CO_2	10.9	19.4	< 0.01	0.6	95.2
Mobile Combustion: Road & Other	N_2O	41.4	40.6	< 0.01	0.5	95.6
Mobile Combustion: Marine	CO_2	43.6	54.4	< 0.01	0.5	96.1
CO ₂ Emissions from Ammonia Production and Urea						
Application	CO_2	19.3	16.9	< 0.01	0.4	96.5
CH ₄ Emissions from Manure Management	CH ₄	31.2	39.4	< 0.01	0.4	96.8
CO ₂ Emissions from Settlements Remaining	CO_2	83.2	97.3	< 0.01	0.3	97.2

Settlements						
CO ₂ Emissions from Aluminum Production	CO_2	7.0	4.3	< 0.01	0.3	97.5
N ₂ O Emissions from Nitric Acid Production	N_2O	17.8	16.6	< 0.01	0.3	97.7
SF ₆ Emissions from Magnesium Production	SF_6	5.4	2.7	< 0.01	0.3	98.0
Direct N ₂ O Emissions from Agricultural Soils	N ₂ O	150.4	170.9	< 0.01	0.2	98.2
Non-co2 Emissions from Stationary Combustion	CH ₄	7.9	6.4	< 0.01	0.2	98.4
Mobile Combustion: Road & Other	CH ₄	4.5	2.7	< 0.01	0.2	98.6
CO ₂ Emissions from Grassland Remaining						
Grassland	CO_2	4.5	7.3	< 0.01	0.2	98.8
N ₂ O Emissions from Wastewater Handling	N_2O	12.9	16.0	< 0.01	0.1	98.9
PFC, HFC, and SF ₆ Emissions from Semiconductor						
Manufacture	SF ₆	2.9	4.7	< 0.01	0.1	99.0
CO ₂ Emissions from Land Converted to Grassland	CO_2	17.6	21.1	< 0.01	0.1	99.1
CO ₂ Emissions from Land Converted to Cropland	CO_2	1.5	2.8	< 0.01	0.1	99.2
CO ₂ Emissions from Lime Production	CO_2	11.2	13.7	< 0.01	0.1	99.3
Fugitive Emissions from Abandoned Coal Mines	CH ₄	6.0	5.6	<0.01	0.1	99.4
CO ₂ Emissions from Ferroalloys	CO_2	2.0	1.3	<0.01	0.1	99.5
CO ₂ Emissions from Titanium Dioxide Production	CO_2	1.3	2.3	<0.01	0.1	99.5
CO ₂ Emissions from Zinc Production	CO_2	0.9	0.5	<0.01	< 0.01	99.6
N ₂ O Emissions from Manure Management	N_2O	16.3	17.7	<0.01	< 0.01	99.6
CO ₂ Emissions from Limestone and Dolomite Use	CO_2	5.5	6.7	<0.01	< 0.01	99.7
CO ₂ Emissions from Natural Gas Flaring	CO_2	5.8	6.0	< 0.01	< 0.01	99.7
CO ₂ Emissions from Soda Ash Manufacture and						
Consumption	CO_2	4.1	4.2	<0.01	< 0.01	99.7
CH ₄ Emissions from Iron and Steel Production	CH ₄	1.3	1.0	< 0.01	< 0.01	99.8
CH ₄ Emissions from Rice Production	CH ₄	7.1	7.6	< 0.01	< 0.01	99.8
CO ₂ Emissions from Petrochemical Production	CO_2	2.2	2.9	< 0.01	< 0.01	99.8
N ₂ O Emissions from Forest Land Remaining Forest	NI O	0.1	0.4	0.01	0.01	00.0
Land	N ₂ O	0.1	0.4	<0.01	<0.01	99.9
CO ₂ Emissions from Phosphoric Acid Production	CO ₂	1.5	1.4	< 0.01	<0.01	99.9
CH ₄ Emissions from Petrochemical Production	CH ₄	1.2	1.6	<0.01	<0.01	99.9
CO ₂ Emissions from CO ₂ Consumption	CO ₂	0.9	1.2	<0.01	<0.01	99.9
Mobile Combustion: Aviation	N_2O	1.7	1.8	<0.01	<0.01	99.9
N ₂ O Emissions from Settlements Remaining Settlements	N ₂ O	5.6	6.4	<0.01	<0.01	100.0
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.7	0.4	<0.01	<0.01	100.0
N ₂ O Emissions from Agricultural Residue Burning	N ₂ O	0.7	0.5	<0.01	<0.01	100.0
CO ₂ Emissions from Stationary Combustion—	IN2O	0.4	0.5	<0.01	<0.01	100.0
Geothermal Energy	CO_2	0.4	0.4	< 0.01	< 0.01	100.0
Non-CO ₂ Emissions from Stationary Combustion	N ₂ O	12.3	13.7	<0.01	<0.01	100.0
CO ₂ Emissions from Lead Production	CO_2	0.3	0.3	<0.01	<0.01	100.0
N ₂ O Emissions from N ₂ O Product Usage	N ₂ O	4.3	4.8	<0.01	<0.01	100.0
Mobile Combustion: Marine	N ₂ O	0.4	0.4	<0.01	<0.01	100.0
Mobile Combustion: Aviation	CH ₄	0.2	0.1	<0.01	<0.01	100.0
CO ₂ Emissions from Silicon Carbide Consumption	CO ₂	0.1	0.1	<0.01	<0.01	100.0
CH ₄ Emissions from Silicon Carbide Production	CH ₄	0.0	0.0	<0.01	<0.01	100.0
N ₂ O Emissions from Waste Incineration	N ₂ O	0.5	0.5	<0.01	<0.01	100.0
Mobile Combustion: Marine	CH ₄	0.1	0.3	<0.01	<0.01	100.0
Total	O1 14	7,022.3	7,869.0	0.14	\U.U1	100.0
iotai		1,022.3	1,007.0	U. 14		

References

Flugsrud, K., W. Irving, and K. Rypdal (1999) Methodological Choice in Inventory Preparation. Suggestions for Good Practice Guidance. Statistics Norway Department of Economic Statistics. 1999/19.

IPCC (2000) *Good Practice Guidance* and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme.